

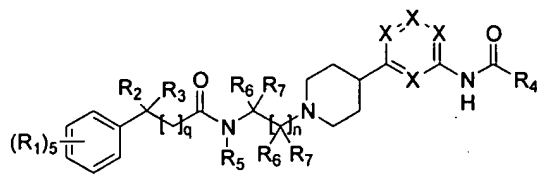
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of the Claims:**

Claims 1-38. (cancelled)

Claim 39. (new) A method of treating a subject suffering from depression comprising administering to the subject a therapeutically effective amount of a compound having the structure:



wherein each  $R_1$  is independently hydrogen; -F; -Cl; -Br; -I; -CN; -NO<sub>2</sub>; straight chained or branched C<sub>1</sub>-C<sub>7</sub> alkyl, monofluoroalkyl or polyfluoroalkyl; straight chained or branched C<sub>2</sub>-C<sub>7</sub> alkenyl; C<sub>3</sub>-C<sub>7</sub> cycloalkyl or C<sub>5</sub>-C<sub>7</sub> cycloalkenyl; aryl; heteroaryl; -N(R<sub>5</sub>)<sub>2</sub>; -(CH<sub>2</sub>)<sub>m</sub>OR<sub>5</sub>; -COR<sub>5</sub>; -CO<sub>2</sub>R<sub>5</sub>; -OCOR<sub>5</sub>; -CON(R<sub>5</sub>)<sub>2</sub>; -N(R<sub>5</sub>)COR<sub>5</sub>; -N(R<sub>5</sub>)CON(R<sub>5</sub>)<sub>2</sub>; -OCON(R<sub>5</sub>)<sub>2</sub> or -N(R<sub>5</sub>)CO<sub>2</sub>R<sub>5</sub>;

wherein  $R_2$  is hydrogen; -F; -Cl; -Br; -I; -CN; -(CH<sub>2</sub>)<sub>m</sub>OR<sub>5</sub>; -(CH<sub>2</sub>)<sub>m</sub>SR<sub>5</sub>; -NH<sub>2</sub>; straight chained or branched C<sub>1</sub>-C<sub>7</sub> alkyl, monofluoroalkyl, polyfluoroalkyl; aryl or heteroaryl, wherein the aryl or heteroaryl may be substituted with one or more  $R_1$

wherein  $R_3$  is hydrogen; -F; -Cl; -Br; -I; -CN; -(CH<sub>2</sub>)<sub>m</sub>OR<sub>5</sub>; -(CH<sub>2</sub>)<sub>m</sub>SR<sub>5</sub>; straight chained or branched C<sub>1</sub>-C<sub>7</sub> alkyl, monofluoroalkyl, polyfluoroalkyl; aryl or heteroaryl, wherein the aryl or heteroaryl may be substituted with one or more  $R_1$ ; or wherein  $R_2$  and  $R_3$  together can be -(CH<sub>2</sub>)<sub>p</sub>;

wherein  $R_4$  is straight chained or branched C<sub>1</sub>-C<sub>7</sub> alkyl, monofluoroalkyl or polyfluoroalkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, C<sub>1</sub>-C<sub>7</sub> alkyl-C<sub>3</sub>-C<sub>6</sub> cycloalkyl; -N(R<sub>5</sub>)<sub>2</sub> or -(CH<sub>2</sub>)<sub>m</sub>OR<sub>5</sub>;

wherein each R<sub>5</sub> is independently hydrogen; aryl; heteroaryl or straight chained or

wherein each R<sub>6</sub> is independently hydrogen; straight chained or branched C<sub>1</sub>-C<sub>7</sub> alkyl;

wherein each R<sub>7</sub> is independently hydrogen; phenyl or straight chained or branched C<sub>1</sub>-

wherein each  $m$  is independently an integer from 0 to 5 inclusive;

wherein n is an integer from 1 to 5 inclusive;

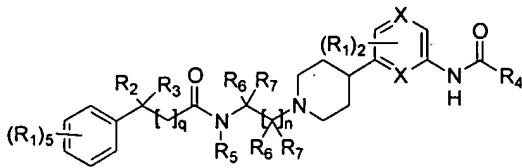
wherein p is an integer from 2 to 7 inclusive;

wherein  $q$  is an integer from 0 to 2 inclusive; and

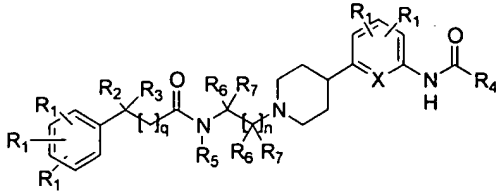
wherein each  $X$  is independently  $CR_1$  or  $N$ , provided that if one  $X$  is  $N$  then the

or a pharmaceutically acceptable salt thereof.

**Claim 40.** (new) The method of claim 39, wherein the compound has the structure:



**Claim 41.** (new) The method of claim 40, wherein the compound has the structure:



wherein R<sub>2</sub> and R<sub>3</sub> are each independently hydrogen; -F; -Cl; -Br; -I; -CN; -(CH<sub>2</sub>)<sub>m</sub>OR<sub>5</sub>; -

(CH<sub>2</sub>)<sub>m</sub>SR<sub>5</sub>; straight chained or branched C<sub>1</sub>-C<sub>7</sub> alkyl, monofluoroalkyl, polyfluoroalkyl;

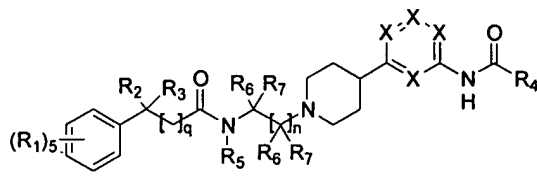
aryl or heteroaryl, wherein the aryl or heteroaryl may be substituted with one or more  $R_1$ ; or wherein  $R_2$  and  $R_3$  together can be  $-(CH_2)_p-$ ;

wherein  $R_4$  is straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl or polyfluoroalkyl,  $C_3$ - $C_6$  cycloalkyl,  $-N(R_5)_2$  or  $-(CH_2)_mOR_5$ ; and  $X$  is CH or N.

Claim 42. (new) The method of claim 41, wherein  $X$  is CH.

Claim 43. (new) The method of claim 41, wherein  $X$  is N.

Claim 44. (new) A method of treating a subject suffering from anxiety comprising administering to the subject a therapeutically effective amount of a compound having the structure:



wherein each  $R_1$  is independently hydrogen; -F; -Cl; -Br; -I; -CN; -NO<sub>2</sub>; straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl or polyfluoroalkyl; straight chained or branched  $C_2$ - $C_7$  alkenyl;  $C_3$ - $C_7$  cycloalkyl or  $C_5$ - $C_7$  cycloalkenyl; aryl; heteroaryl;  $-N(R_5)_2$ ;  $-(CH_2)_mOR_5$ ;  $-COR_5$ ;  $-CO_2R_5$ ;  $-OCOR_5$ ;  $-CON(R_5)_2$ ;  $-N(R_5)COR_5$ ;  $-N(R_5)CON(R_5)_2$ ;  $OCON(R_5)_2$  or  $-N(R_5)CO_2R_5$ ;

wherein  $R_2$  is hydrogen; -F; -Cl; -Br; -I; -CN;  $-(CH_2)_mOR_5$ ;  $-(CH_2)_mSR_5$ ;  $-NH_2$ ; straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl, polyfluoroalkyl; aryl or heteroaryl, wherein the aryl or heteroaryl may be substituted with one or more  $R_1$

wherein  $R_3$  is hydrogen; -F; -Cl; -Br; -I; -CN;  $-(CH_2)_mOR_5$ ;  $-(CH_2)_mSR_5$ ; straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl, polyfluoroalkyl; aryl or heteroaryl, wherein the aryl or heteroaryl may be substituted with one or more  $R_1$ ; or wherein  $R_2$  and  $R_3$  together can be  $-(CH_2)_p-$ ;

wherein  $R_4$  is straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl or polyfluoroalkyl,  $C_3$ - $C_6$  cycloalkyl,  $C_1$ - $C_7$  alkyl- $C_3$ - $C_6$  cycloalkyl;  $-N(R_5)_2$  or  $-(CH_2)_mOR_5$ ;

wherein each  $R_5$  is independently hydrogen; aryl; heteroaryl or straight chained or branched  $C_1$ - $C_7$  alkyl, wherein the alkyl may be substituted with an aryl or heteroaryl;

wherein each  $R_6$  is independently hydrogen; straight chained or branched  $C_1$ - $C_7$  alkyl;

wherein each  $R_7$  is independently hydrogen; phenyl or straight chained or branched  $C_1$ - $C_7$  alkyl, wherein the alkyl may be substituted with a phenyl;

wherein each  $m$  is independently an integer from 0 to 5 inclusive;

wherein  $n$  is an integer from 1 to 5 inclusive;

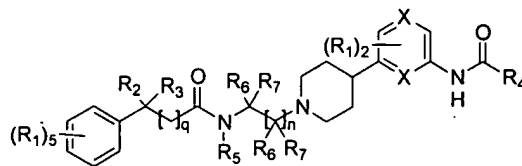
wherein  $p$  is an integer from 2 to 7 inclusive;

wherein  $q$  is an integer from 0 to 2 inclusive; and

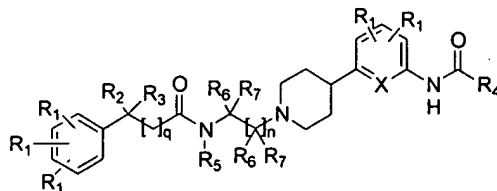
wherein each  $X$  is independently  $CR_1$  or  $N$ , provided that if one  $X$  is  $N$  then the remaining  $X$  are  $CR_1$ ;

or a pharmaceutically acceptable salt thereof.

Claim 45. (new) The method of claim 44, wherein the compound has the structure:



Claim 46. (new) The method of claim 45, wherein the compound has the structure:



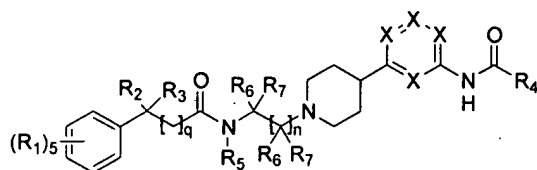
wherein  $R_2$  and  $R_3$  are each independently hydrogen; -F; -Cl; -Br; -I; -CN;  $-(CH_2)_mOR_5$ ;  $-(CH_2)_mSR_5$ ; straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl, polyfluoroalkyl; aryl or heteroaryl, wherein the aryl or heteroaryl may be substituted with one or more  $R_1$ ; or wherein  $R_2$  and  $R_3$  together can be  $-(CH_2)_p$ ;

wherein  $R_4$  is straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl or polyfluoroalkyl,  $C_3$ - $C_6$  cycloalkyl,  $-N(R_5)_2$  or  $-(CH_2)_mOR_5$ ; and X is CH or N.

Claim 47. (new) The method of claim 46, wherein X is CH.

Claim 48. (new) The method of claim 46, wherein X is N.

Claim 49. (new) A method of treating a subject suffering from obesity comprising administering to the subject a therapeutically effective amount of a compound having the structure:



wherein each  $R_1$  is independently hydrogen; -F; -Cl; -Br; -I; -CN;  $-NO_2$ ; straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl or polyfluoroalkyl; straight chained or branched  $C_2$ - $C_7$  alkenyl;  $C_3$ - $C_7$  cycloalkyl or  $C_5$ - $C_7$  cycloalkenyl; aryl; heteroaryl;  $-N(R_5)_2$ ;  $-(CH_2)_mOR_5$ ;  $-COR_5$ ;  $-CO_2R_5$ ;  $-OCOR_5$ ;  $-CON(R_5)_2$ ;  $-N(R_5)COR_5$ ;  $-N(R_5)CON(R_5)_2$ ;  $-OCON(R_5)_2$  or  $-N(R_5)CO_2R_5$ ;

wherein  $R_2$  is hydrogen; -F; -Cl; -Br; -I; -CN;  $-(CH_2)_mOR_5$ ;  $-(CH_2)_mSR_5$ ;  $-NH_2$ ; straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl, polyfluoroalkyl; aryl or heteroaryl, wherein the aryl or heteroaryl may be substituted with one or more  $R_1$

wherein  $R_3$  is hydrogen; -F; -Cl; -Br; -I; -CN;  $-(CH_2)_mOR_5$ ;  $-(CH_2)_mSR_5$ ; straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl, polyfluoroalkyl; aryl or heteroaryl, wherein the

aryl or heteroaryl may be substituted with one or more  $R_1$ ; or wherein  $R_2$  and  $R_3$  together can be  $-(CH_2)_p-$ ;

wherein  $R_4$  is straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl or polyfluoroalkyl,  $C_3$ - $C_6$  cycloalkyl,  $C_1$ - $C_7$  alkyl- $C_3$ - $C_6$  cycloalkyl;  $-N(R_5)_2$  or  $-(CH_2)_mOR_5$ ;

wherein each  $R_5$  is independently hydrogen; aryl; heteroaryl or straight chained or branched  $C_1$ - $C_7$  alkyl, wherein the alkyl may be substituted with an aryl or heteroaryl;

wherein each  $R_6$  is independently hydrogen; straight chained or branched  $C_1$ - $C_7$  alkyl;

wherein each  $R_7$  is independently hydrogen; phenyl or straight chained or branched  $C_1$ - $C_7$  alkyl, wherein the alkyl may be substituted with a phenyl;

wherein each  $m$  is independently an integer from 0 to 5 inclusive;

wherein  $n$  is an integer from 1 to 5 inclusive;

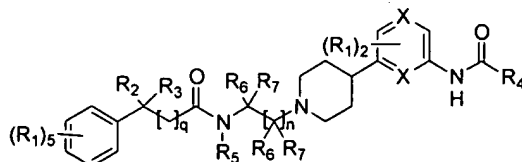
wherein  $p$  is an integer from 2 to 7 inclusive;

wherein  $q$  is an integer from 0 to 2 inclusive; and

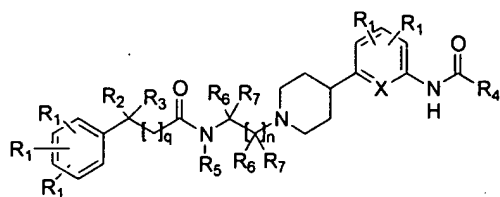
wherein each  $X$  is independently  $CR_1$  or  $N$ , provided that if one  $X$  is  $N$  then the remaining  $X$  are  $CR_1$ ;

or a pharmaceutically acceptable salt thereof.

Claim 50. (new) The method of claim 49, where the compound has the structure:



Claim 51. (new) The method of claim 50, wherein the compound has the structure:



wherein  $R_2$  and  $R_3$  are each independently hydrogen; -F; -Cl; -Br; -I; -CN;  $-(CH_2)_mOR_5$ ;  $-(CH_2)_mSR_5$ ; straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl, polyfluoroalkyl; aryl or heteroaryl, wherein the aryl or heteroaryl may be substituted with one or more  $R_1$ ; or wherein  $R_2$  and  $R_3$  together can be  $-(CH_2)_p$ ;

wherein  $R_4$  is straight chained or branched  $C_1$ - $C_7$  alkyl, monofluoroalkyl or polyfluoroalkyl,  $C_3$ - $C_6$  cycloalkyl,  $-N(R_5)_2$  or  $-(CH_2)_mOR_5$ ; and  $X$  is CH or N.

Claim 52. (new) The method of claim 51, wherein  $X$  is CH.

Claim 53. (new) The method of claim 51, wherein  $X$  is N.